

VEHICLE TECHNOLOGIES PROGRAM

Ford Escape Advanced Research Fleet

Number of vehicles: 21 Date range of data received: 11/01/2009 to 08/31/2011

Reporting period: Nov 09 - Aug 11 Number of vehicle days driven: 6,434

All Trips Combined

Overall gasoline fuel economy (mpg)	38
Overall AC electrical energy consumption (AC Wh/mi) ¹	100
Overall DC electrical energy consumption (DC Wh/mi) ²	66
Total number of trips	28,551
Total distance traveled (mi)	359,129

Trips in Charge Depleting (CD) mode³

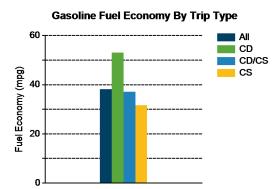
Gasoline fuel economy (mpg)	53
DC electrical energy consumption (DC Wh/mi) ⁴	168
Number of trips	16,192
Percent of trips city highway	84% 16%
Distance traveled (mi)	93,149
Percent of total distance traveled	26%

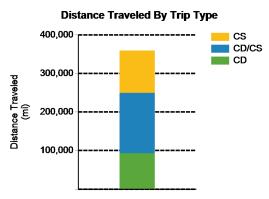
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

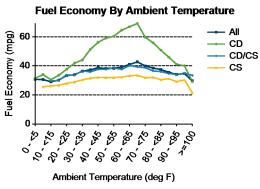
Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi) ⁶	54
Number of trips	5,444
Percent of trips city highway	37% 63%
Distance traveled (mi)	156,540
Percent of total distance traveled	44%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	32
Number of trips	6,907
Percent of trips city highway	65% 35%
Distance traveled (mi)	109,440
Percent of total distance traveled	30%
1 ercent of total distance traveled	3078







Notes: 1 - 7. Please see http://avt.inl.gov/pdf/phev/fordreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.

Since these vehicles are flex-fuel capable, some driving events are conducted with E-85, which may decrease fuel economy results

"The Ford Escape Advanced Research Fleet was designed as a demonstration of customer duty cycles related to plug-in electric vehicles. The vehicles used in this demonstration have not been optimized to provide the maximum potential fuel economy."

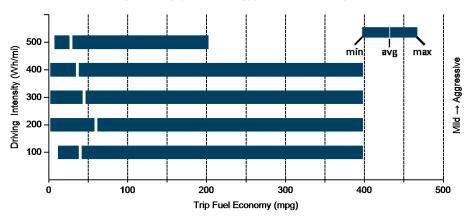


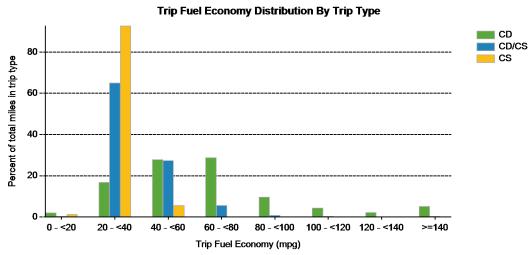
Average trip distance (mi)

Trips in Charge Depleting (CD) mode	City	Highway
Gasoline fuel economy (mpg)	49	58
DC electrical energy consumption (DC Wh/mi)	168	167
Percent of miles with internal combustion engine off	38%	12%
Average trip driving intensity (Wh/mi)	266	305
Average trip distance (mi)	4	17
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode	е	
Gasoline fuel economy (mpg)	43	36
DC electrical energy consumption (DC Wh/mi)	75	51
Percent of miles with internal combustion engine off	30%	5%
Average trip driving intensity (Wh/mi)	278	325
Average trip distance (mi)	9	40
Trips in Charge Sustaining (CS) mode		
Gasoline fuel economy (mpg)	30	32
Percent of miles with internal combustion engine off	23%	4%
Average trip driving intensity (Wh/mi)	266	321

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Effect Of Driving Intensity (Wheel Energy) on Fuel Economy This Month



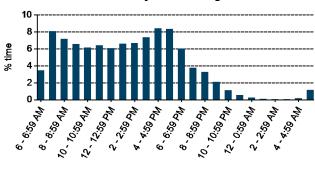




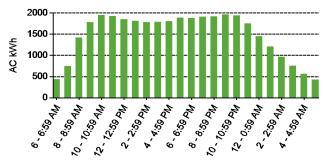
Plug-in charging

Average number of charging events per vehicle per month when driven	45	
Average number of charging events per vehicle per day when driven	3.0	
Average distance driven between charging events (mi)	18.3	
Average number of trips between charging events	1.5	
Average time plugged in per charging event (hr)	6.1	
Average time charging per charging event (hr)	1.3	
Average energy per charging event (AC kWh)	1.8	
Average charging energy per vehicle per month (AC kWh)	81.7	
Total number of charging events	19,611	
Total charging energy (AC kWh)	35,884	





Time of Day When Charging



Time of Day When Plugging In

